

MAT0511

January/February 2014

ACCESS TO MATHEMATICS

Duration: 3 Hours

100 Marks

 EXAMINERS -
 FIRST
 SECOND

 MRS JC BEDEKER
 MR DC IKPE

Closed book examination

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This paper consists of 6 pages

THE USE OF A POCKET CALCULATOR IS NOT PERMITTED.Answer **ALL** the questions

There is a total of 100 marks

QUESTION 1Suppose the set A is described by

$$A = [-3, 4)$$

and the set B is represented on a number line as follows

- 1.1 Determine $A \cap B$ and write down the answer in **set builder** notation (2)
- 1.2 Determine $A \cup B$ and write down the answer in **interval** notation (1)
- [3]**

QUESTION 2

Sandra can paint only half the area of any surface that Joseph can paint in a given time. Joseph takes 45 minutes to paint one quarter of a room

- 2.1 Calculate how long (in hours) it will take Joseph and Sandra (each) to paint the whole room when they work separately (alone) (2)

[TURN OVER]

Mathematics Mat0511 Module

RS Peters



Mathematics Mat0511 Module:

Module Theory, Extending Modules and Generalizations Adnan Tercan, Canan C. Yücel, 2016-05-13 The main focus of this monograph is to offer a comprehensive presentation of known and new results on various generalizations of CS modules and CS rings Extending or CS modules are generalizations of injective and also semisimple or uniform modules While the theory of CS modules is well documented in monographs and textbooks results on generalized forms of the CS property as well as dual notions are far less present in the literature With their work the authors provide a solid background to module theory accessible to anyone familiar with basic abstract algebra The focus of the book is on direct sums of CS modules and classes of modules related to CS modules such as relative injective ejective modules quasi continuous modules and lifting modules In particular matrix CS rings are studied and clear proofs of fundamental decomposition results on CS modules over commutative domains are given thus complementing existing monographs in this area Open problems round out the work and establish the basis for further developments in the field The main text is complemented by a wealth of examples and exercises

Lifting Modules John Clark, Christian Lomp, N. Vanaja, Robert Wisbauer, 2008-08-17 Extending modules are generalizations of injective modules and dually lifting modules generalize projective supplemented modules There is a certain asymmetry in this duality While the theory of extending modules is well documented in monographs and text books the purpose of our monograph is to provide a thorough study of supplements and projectivity conditions needed to investigate classes of modules related to lifting modules The text begins with an introduction to small submodules the radical variations on projectivity and hollow dimension The subsequent chapters consider preradicals and torsion theories in particular related to small modules decompositions of modules including the exchange property and local semi T nilpotency supplements in modules with specific emphasis on semilocal endomorphism rings finishing with a long chapter on lifting modules leading up their use in the theory of perfect rings Harada rings and quasi Frobenius rings Most of the material in the monograph appears in book form for the first time The main text is augmented by a plentiful supply of exercises together with comments on further related material and on how the theory has evolved

Enhanced Teacher Edition Math 1 Module 8

Mathematics Vision Project, 2016-07-01 Teacher materials for the Mathematics Vision Project Math 1 Module 8 Integrated mathematics course

Enhanced Teacher Edition Math 1 Module 2 Mathematics Vision Project, 2016-07-01 Teacher materials for the Mathematics Vision Project Math 1 Module 2 Integrated mathematics course

Enhanced Teacher Edition Math 1 Module 9 Mathematics Vision Project, 2016-07-01 Teacher materials for the Mathematics Vision Project Math 1

Module 9 Integrated mathematics course

Module Theory C. Faith, S. Wiegand, 2006-11-15

Module Theory C. Faith, S. Wiegand, 2014-01-15

Modular Mathematics Linda Bostock, Suzanne Chandler, 1990-01-01

Methods in Module Theory

Abrams, 1992-10-16 A collection of articles embodying the work presented at the 1991 Methods in Module Theory Conference at the University of Colorado at Colorado Springs facilitating the explanation and cross fertilization of new techniques that

were developed to answer a variety of module theoretic questions A First Course In Module Theory Mike E Keating, 1998-07-31 This book is an introduction to module theory for the reader who knows something about linear algebra and ring theory Its main aim is the derivation of the structure theory of modules over Euclidean domains This theory is applied to obtain the structure of abelian groups and the rational canonical and Jordan normal forms of matrices The basic facts about rings and modules are given in full generality so that some further topics can be discussed including projective modules and the connection between modules and representations of groups The book is intended to serve as supplementary reading for the third or fourth year undergraduate who is taking a course in module theory The further topics point the way to some projects that might be attempted in conjunction with a taught course **Students' Integrated Maths Module for Linear Functions 2** ,2003 Almost Free Modules P.C. Eklof, A.H. Mekler, 2002-04-29 This book provides a comprehensive exposition of the use of set theoretic methods in abelian group theory module theory and homological algebra including applications to Whitehead's Problem the structure of Ext and the existence of almost free modules over non perfect rings This second edition is completely revised and updated to include major developments in the decade since the first edition Among these are applications to cotorsion theories and covers including a proof of the Flat Cover Conjecture as well as the use of Shelah's pcf theory to construct almost free groups As with the first edition the book is largely self contained and designed to be accessible to both graduate students and researchers in both algebra and logic They will find there an introduction to powerful techniques which they may find useful in their own work D-Modules, Perverse Sheaves, and Representation Theory Kiyoshi Takeuchi, Ryoshi Hotta, Toshiyuki Tanisaki, 2007-10-12 D modules continues to be an active area of stimulating research in such mathematical areas as algebraic analysis differential equations and representation theory Key to D modules Perverse Sheaves and Representation Theory is the authors essential algebraic analytic approach to the theory which connects D modules to representation theory and other areas of mathematics To further aid the reader and to make the work as self contained as possible appendices are provided as background for the theory of derived categories and algebraic varieties The book is intended to serve graduate students in a classroom setting and as self study for researchers in algebraic geometry representation theory D-modules and Microlocal Calculus Masaki Kashiwara, 2003 The original title of this work translated as Foundation of Algebraic Analysis Kashiwara Kyoto U Japan changed the title to more precisely reflect the nature of the text's contents and to signal his belief that the microlocal point of view helps concrete calculations as powerfully as the Cauchy integral formula provides the values of many definite integrals Chapters cover basic properties of D modules characteristic varieties construction of D modules their functorial properties regular holonomic systems b functions ring of formal microdifferential operators microlocal analysis of holonomic systems and microlocal calculus of b functions Translated from the Japanese work Daisu Kaiseki Gairon 2000 Annotation copyrighted by Book News Inc Portland OR **Analytic D-Modules and Applications** Jan-Erik Björk, 1993-01-31 This is the first monograph to be

published on analytic D modules and it offers a complete and systematic treatment of the foundations together with a thorough discussion of such modern topics as the Riemann Hilbert correspondence Bernstein Sata polynomials and a large variety of results concerning microdifferential analysis Analytic D module theory studies holomorphic differential systems on complex manifolds It brings new insight and methods into many areas such as infinite dimensional representations of Lie groups asymptotic expansions of hypergeometric functions intersection cohomology on Kahler manifolds and the calculus of residues in several complex variables The book contains seven chapters and has an extensive appendix which is devoted to the most important tools which are used in D module theory This includes an account of sheaf theory in the context of derived categories a detailed study of filtered non commutative rings and homological algebra and the basic material in symplectic geometry and stratifications on complex analytic sets For graduate students and researchers **Modular**

Mathematics Linda Bostock,Suzanne Chandler,1994-09-01 [A Primer of Algebraic D-Modules](#) S. C. Coutinho,1995-09-07

The theory of D modules is a rich area of study combining ideas from algebra and differential equations and it has significant applications to diverse areas such as singularity theory and representation theory This book introduces D modules and their applications avoiding all unnecessary technicalities The author takes an algebraic approach concentrating on the role of the Weyl algebra The author assumes very few prerequisites and the book is virtually self contained The author includes exercises at the end of each chapter and gives the reader ample references to the more advanced literature This is an excellent introduction to D modules for all who are new to this area [Students' Integrated Maths Module for Exponential](#)

[Functions 2](#) Mark R. O'Brien,2004 **Students' Integrated Maths Module for Exponential Functions 1** ,2000 **An**

Introduction to Module Theory Emeritus Professor Ibrahim Assem,Professor of Mathematics Flávio U Coelho,2024-12-19

This textbook is a modern and accessible account of module theory and is intended for a graduate course on the topic Written by two specialists it is addressed to graduate students in algebra or to students who need algebraic tools in their work It features a large number of examples worked out in detail figures and exercises

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